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Customer Number:

**27849**

PATENT TRADEMARK OFFICE



TO: Commissioner for Patents  
**Mail Stop Patent Application**  
P.O. Box 1450  
Alexandria, VA 22313-1450

Attorney Docket No. **277/023**

**UTILITY PATENT APPLICATION TRANSMITTAL**  
**(new nonprovisional application under 37 CFR 1.53(b))**

Transmitted herewith for filing is the patent application of:

**INVENTOR(S): Ji-deog KIM; Suk-han LEE**

**TITLE: PHOTONIC CRYSTAL-BASED RESONANT CAVITY AND RESONATOR**

In connection with this application, the following are enclosed:

**APPLICATION ELEMENTS:**



Specification, Claims & Abstract - 28 TOTAL PAGES

(preferred arrangement:)

- Descriptive Title of the Invention
- Cross Reference to Related Applications
- Statement Regard Fed sponsored R&D
- Reference to Microfiche Appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings (if filed)
- Detailed Description
- Claim(s)
- Abstract of the Disclosure



Drawings - 5 Total Sheets (depicting Figures 1, 2, 3, 4A, 4B, 4C, 5, 6, 7A, 7B)



Declaration and Power of Attorney - 2 Total Sheets



Newly executed (original or copy)



Copy from a prior application (37 CFR 1.63(d))

(relates to continuation/divisional boxes completed) - NOTE: Box below

- ☐ Deletion of Inventor(s): Signed statement attached deleting inventor(s) named in prior application; see 37 CFR 1.63(d)(2) and 1.33(b)
- ☐ Incorporation By Reference (useable if copy of prior application Declaration being submitted)

The entire disclosure of the prior application, from which a COPY of the oath or declaration is supplied as noted above, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.

- ☐ Microfiche Computer Program (Appendix)
- ☐ Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
- ☐ Computer Readable Copy
- ☐ Paper Copy (identical to computer copy)
- ☐ Statement verifying identify of above copies

#### ACCOMPANYING APPLICATION PARTS

- ☒ Assignment Papers (cover sheet & document(s))
- ☐ 37 CFR 3.73(b) Statement (when there is an assignee)
- ☐ English Translation Document (if applicable)
- ☐ Information Disclosure Statement (IDS) with PTO-1449. ☐ Copies of IDS Citations
- ☐ Preliminary Amendment
- ☒ Return Receipt Postcard (MPEP 503)
- ☒ Certified Copy of Priority Document(s) with Claim of Priority  
(if foreign priority is claimed).
- ☒ OTHER: Deposit Account Charge Authorization – Account 50-1645

If a CONTINUING APPLICATION, check appropriate box and supply the requisite information:

- ☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)  
of prior application Serial No. \_\_\_\_\_.

- ☐ Amend the specification by inserting before the first line the following sentence:  
--This application is a ☐ continuation, ☐ divisional or ☐ continuation-in-part of application  
Serial No. \_\_/\_\_, filed \_\_\_\_\_.--

**CORRESPONDENCE ADDRESS:**

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**FEES CALCULATIONS:** (Small entity fees indicated in parentheses.)

(1) For	(2) Number Filed	(3) Number Extra	(4) Rate	(5) Basic Fee \$ 770.00 (\$385)
Total Claims	<u>12</u> - 20 =	0	x \$18 (x \$9)	0.00
Independent Claims	<u>2</u> - 3 =	0	x \$86 (x \$43)	0.00
Multiple Dependent Claims			\$290 (\$145)	0.00
Assignment Recording Fee per property			\$40	40.00
TOTAL FEE:				<b>\$ 810.00</b>

**METHOD OF PAYMENT:**

☒ The Commissioner is hereby authorized to charge the fees connected with the filing of this application to Deposit Account No. 50-1645.

Respectfully submitted,



Eugene M. Lee  
Registration No. 32,039

Date: December 2, 2003